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10/684,912	10/14/2003	Michael A. Stokke	MS301462.1 / MSFTP462US	3556
27195	7590	10/18/2007	EXAMINER	
AMIN. TUROCY & CALVIN, LLP 24TH FLOOR, NATIONAL CITY CENTER 1900 EAST NINTH STREET CLEVELAND, OH 44114			AUGUSTINE, NICHOLAS	
			ART UNIT	PAPER NUMBER
			2179	
			NOTIFICATION DATE	DELIVERY MODE
			10/18/2007	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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# Office Action Summary

Application No.

10/684,912

Applicant(s)

STOKKE ET AL.

Examiner

Nicholas Augustine

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 27 July 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-4,6-29 and 33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4,6-29 and 33 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

- A. This action is in response to the following communications: Request for Continued Examination filed: 07/27/2007
- B. Claims 1-4,6-29 and 33 remain pending.
- C. Objections are withdrawn from previous office action due to amendment.
- D. Rejection under 35 USC 101 is withdrawn due to amendment.

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***Claim Rejections - 35 USC § 103***

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1, 4-11, 14-22, 25, 27-29 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaefer (US Pub 2003/0084429), herein referred to as Schaefer, in view of Dewhurst et al. (US 6,430,609) herein referred to as Dewhurst.

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As claim1, Schaefer discloses user interface automation system (fig.2, label 210, 220 and 230) comprising: an input component that receives a request (par [0037], lines 6-8); and, a navigation component that receives the request from the input component (par [0037], lines 3-6) and facilitates simulated user interface associated with an automation component (par [0038], lines 1-3 and 5-8; par [0041]; par [0051]; par [0054]-[0055]; par [0071]), based at least in part, upon information stored in a map information store (par [0041], lines 1-3; par [0043]; par [0045]) and information stored in a command information store (par [0041], lines 8-14; par [0043]; par [0045]). Schaefer does not expressly teach *the navigation component further employs a global information store and facilitates a global variable replacement from a single location and sharing of a common program flow among a plurality of users* in great detail. Schaefer teaches that their system takes the navigation component along with other components and relevant information is stored on secondary storage. Secondary storage as known in the art is commonly placed outside of a local computing area (remote server, "physically not connected to the computer running content on primary storage). It is also commonly

well known that secondary storage can be locally as well. Schaefer does not distinguish between the two possibilities (paragraph 43 and 45). However Schaefer makes mention of a network interface module 150 which is used in the system and is defined as "may include hardware ("secondary storage" could be expressed by this) and software for sending and receiving data over a network, and may be user, for example, in testing a software program that has a client/ server architecture". Of course it would have been obvious to one of ordinary skill in the art at the time of the invention was made to recognize that secondary storage is used for the storage of the navigation component which is globally shared among a plurality of users in a client/server architecture as suggested by Schaefer (paragraph 43,45-46). For further evidence for one of ordinary skill in the art, Schaefer does not expressly teach *the navigation component further employs a global information store and facilitates a global variable replacement from a single location and sharing of a common program flow among a plurality of users* in complete details without one of ordinary skill in the art to obviously make the connection. However in the same field of endeavor Dewhurst teaches *the navigation component further employs a global information store and facilitates a global variable replacement from a single location and sharing of a common program flow among a plurality of users* (column 4, lines 33-65 and figure 5; wherein depicted are plurality of users accessing information from a remote location "server", wherein information is a global information store where connected users can replace variables in the global information store. The replacement information is updated for other connected users from other single locations (clients). Of course it would have been obvious to one of

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ordinary skill in the art at the time of the invention to include Dewhurst's detailed view of global sharing into Schaefer broad view of global sharing, this is true because Dewhurst and Schaefer both teach systems and methods of automation of software presented to the user using a repository connected to a client.

As claim 3, Schaefer further discloses the map information store comprises a text-based file (par [0048]), lines 11-14).

As claim 4, Schaefer does not specifically disclose the configuration information store comprises a text-based file. However, Schaefer discloses a text-based file (par [0047], that HTML is a text based file; par [0048]), lines 11-14). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention to use a text-based file for the command information store in order to store and organize information about a window and objects on the window, such as text fields, boxes, buttons, menus, etc., and making it easy to edit using available software programs installed with most operating systems (e.g., text editing program).

As claim 6, Schaefer further discloses navigation component employing information stored in the global information store when a global variable is encountered in the command information store (par [0058], lines 6-7; par [0060]).

As claim 7, Schaefer further discloses at least one of the map information store and the configuration information store comprise at least one alias name (par [0050], lines 5-6).

As claim 8, Schaefer further discloses the navigation component further stores error information in a log information store (par [0115]-[0116]).

As claim 9, Schaefer further inherently discloses the navigation component further stores information associated with the request in a log information store (par [0115]-[0116]- It should be recognized that the steps of monitoring the results of the execution of the program, test engine component 170 may generate a text-based log file, and store information about the results of the execution including information about windows, .GUI map for each window, objects on the window, Actions that were taken, a status of whether the test case passed or failed, TimeStart and TimeStop for a window action, etc.).

As claim 10, Schaefer further discloses the navigation component iterates through information stored in the command information store (par [0041], lines 8-14; par [0043]; par [0045]), performs the indicated operation (fig. 12; par [0115]) and stores information associated with the indicated operation in the log information store (par [0115]-[0116]).

As claim 11, Schaefer further discloses the navigation component stores error information in the log information store (par [0115]-[0116]).

As claim 14, Schaefer further discloses the input component receives a command line invocation (par [0012]), lines 1-5).

As claim 15, Schaefer further discloses the map information store comprising a section name (fig. 8c, label 825c; par [0081], lines 6-9) and a page identifier (fig. 8c, label 820c; par [0081], lines 6-9).

As claim 16, Schaefer discloses the page identifier comprising a label for a control (fig. 11, label 1100; par [0100], lines 5-10), the page identifier further uniquely identifying a particular page (fig. 8c, label 820c; par [0081], lines 6-9; fig. 8b, label 890b and 810a); par [0079], lines 1-13).

As claim 17, Schaefer further discloses the page identifier comprising a control type (fig. 11, label 1100; par [0100], lines 5-10).



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As claim 18, Schaefer further discloses the control type is at least one of button, combo, list, scroll, static, radio and check type (fig. 11, label 1100 and 1140; par [0101], lines 1-5).

As claim 19, Schaefer further inherently discloses information stored in the command information store can be modified by at least one of a front-end user interface application, scripting, a batch file and a text editor (par [0093] that Schaefer discloses the associated GUI map can be edit using a GUI map editor, since the command information store, which is associated with the GUI map, therefore it can be modified with the same concept).

As claim 20, Schaefer further discloses the command information store comprising a section name, the section name corresponding to information stored in the map information store, the command information store further comprising an action (fig. 13).

As claim 21, Schaefer further discloses the command information store storing information associated with at least one of a function key and a control key simulation (fig. 13).

As claim 22, Schaefer discloses a method of automating user interface (fig.2, label 210, 220 and 230) comprising: receiving mapping information from a map information store (par [0041], lines 5-8); receiving command information from a command information store (par [0041], lines 8-14); performing simulated user interface (par [0038], lines 1-3 and 5-8; par [0041]; par [0051]; par [0054]-[0055]; par [0071]), based at least in part, upon information stored in the map information store (par [0041], lines 1-3; par [0043]; par [0045]) and the command information store (par [0041], lines 8-14; par [0043]; par [0045]). Schaefer does not specifically mention retrieving global information from a global information store; modifying the user interface automation without recompilation of executables by storing data, commands and executables separately. However in the same field of endeavor Dewhurst teaches *retrieving global information from a global information store; modifying the user interface automation without recompilation of executables by storing data, commands and executables separately* (column 4, lines 33-65 and figure 5; wherein depicted are plurality of users accessing information from a remote location "server", wherein information is a global information store where connected users can replace variables in the global information store. The replacement information is updated for other connected users from other single locations (clients). Of course it would have been obvious to one of ordinary skill in the art at the time of the invention to include Dewhurst's detailed view of global sharing into Schaefer broad view of global sharing, this is true because Dewhurst and Schaefer both teach systems and methods of automation of software presented to the user using a repository connected to a client.

As claim 24, Schaefer further discloses a computer readable medium (par [0045], lines 1-2) having stored thereon computer executable instructions for carrying out the, method of claim 22 (par [0040], lines 1-5).

As claim 25, Schaefer discloses a method of automating user interface (fig.2, label 210, 220 and 230) comprising: retrieving mapping information from a map file (par [0041], lines 5-8); retrieving command information from a command file (par [0041], lines 8-14); obtaining a section name from the command file (fig. 8c, label 825c; par [0081], lines 6-9); retrieving page identification information from the map file associated with the section name (fig. 8c, label 820c; par [0081], lines 6-9; fig. 8b, label 890b and 810a); par [0079], lines 1-13); retrieving section data for section associated with the section name from the command file (fig.10); and, performing an action associated with the retrieved section data (fig. 11). Schaefer does not specifically mention retrieving global information from a global information store; modifying the user interface automation without recompilation of executables by storing data, commands and executables separately. However in the same field of endeavor Dewhurst teaches *retrieving global information from a global information store; modifying the user interface automation without recompilation of executables by storing data, commands and executables separately* (column 4, lines 33-65 and figure 5; wherein depicted are plurality of users accessing information from a remote location "server", wherein information is a global

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information store where connected users can replace variables in the global information store. The replacement information is updated for other connected users from other single locations (clients). Of course it would have been obvious to one of ordinary skill in the art at the time of the invention to include Dewhurst's detailed view of global sharing into Schaefer broad view of global sharing, this is true because Dewhurst and Schaefer both teach systems and methods of automation of software presented to the user using a repository connected to a client.

As claim 27, Schaefer further discloses a computer readable medium (par [0045], lines 1-2) having stored thereon computer executable instructions for carrying out the method of claim 25 (par [0040], lines 1-5).

As claim 28; Schaefer discloses a user interface automation system (fig.2, label 210, 220 and 230) comprising: an input component that receives a request (par [0037], lines 6-8); and, a navigation component that receives the request from the input component (par [0037], lines 3-6) and facilitates simulated user interface associated with an automation component (par [0038], lines 1-3 and 5-8; par [0041]; par [0051]; par [0054]-[0055]; par [0071]), based at least in part, upon information stored in a map information store (par [0041], lines 1-3; par [0043]; par [0045]) and information stored in a command information store (par [0041], lines 8-14; par [0043]; par [0045]). Schaefer does not

expressly teach *the navigation component further employs a global information store and facilitates a global variable replacement from a single location and sharing of a common program flow among a plurality of users* in great detail. Schaefer teaches that their system takes the navigation component along with other components and relevant information is stored on secondary storage. Secondary storage as known in the art is commonly placed outside of a local computing area (remote server, “physically not connected to the computer running content on primary storage). It is also commonly well known that secondary storage can be locally as well. Schaefer does not distinguish between the two possibilities (paragraph 43 and 45). However Schaefer makes mention of a network interface module 150 which is used in the system and is defined as “may include hardware (“secondary storage” could be expressed by this) and software for sending and receiving data over a network, and may be user, for example, in testing a software program that has a client/ server architecture”. Of course it would have been obvious to one of ordinary skill in the art at the time of the invention was made to recognize that secondary storage is used for the storage of the navigation component which is globally shared among a plurality of users in a client/server architecture as suggested by Schaefer (paragraph 43,45-46). For further evidence for one of ordinary skill in the art, Schaefer does not expressly teach *the navigation component further employs a global information store and facilitates a global variable replacement from a single location and sharing of a common program flow among a plurality of users* in complete details without one of ordinary skill in the art to obviously make the connection. However in the same field of endeavor Dewhurst teaches *the navigation*

*component further employs a global information store and facilitates a global variable replacement from a single location and sharing of a common program flow among a plurality of users* (column 4, lines 33-65 and figure 5; wherein depicted are plurality of users accessing information from a remote location "server", wherein information is a global information store where connected users can replace variables in the global information store. The replacement information is updated for other connected users from other single locations (clients). Of course it would have been obvious to one of ordinary skill in the art at the time of the invention to include Dewhurst's detailed view of global sharing into Schaefer broad view of global sharing, this is true because Dewhurst and Schaefer both teach systems and methods of automation of software presented to the user using a repository connected to a client.

As claim 3, Schaefer further discloses the map information store comprises a text-based file (par [0048]), lines 11-14).

As claim 29, Schaefer discloses a user interface automation system (fig.2, label 210, 220 and 230) comprising: means for receiving a request (par [0037], lines 6-8); and, means for simulating user interface associated with an automation component (par [0038], lines 1-3 and 5-8; par [0041]; par [0051]; par [0054]-[0055]; par [0071]), based at least in part, upon information stored in a map information store (par [0041], lines 1-3;

par [0043]; par [0045]) and information stored in a command information store (par [0041], lines 8-14) the means for simulating receiving the request from the means for receiving (par [0037], lines 3-6). Schaefer does not expressly teach *the navigation component further employs a global information store and facilitates a global variable replacement from a single location and sharing of a common program flow among a plurality of users* in great detail. Schaefer teaches that their system takes the navigation component along with other components and relevant information is stored on secondary storage. Secondary storage as known in the art is commonly placed outside of a local computing area (remote server, "physically not connected to the computer running content on primary storage). It is also commonly well known that secondary storage can be locally as well. Schaefer does not distinguish between the two possibilities (paragraph 43 and 45). However Schaefer makes mention of a network interface module 150 which is used in the system and is defined as "may include hardware ("secondary storage" could be expressed by this) and software for sending and receiving data over a network, and may be user, for example, in testing a software program that has a client/ server architecture". Of course it would have been obvious to one of ordinary skill in the art at the time of the invention was made to recognize that secondary storage is used for the storage of the navigation component which is globally shared among a plurality of users in a client/server architecture as suggested by Schaefer (paragraph 43,45-46). For further evidence for one of ordinary skill in the art, Schaefer does not expressly teach *a means for sharing a common program flow among a plurality of users based, at least in part, upon replacing a global variable in the*

*command information store with corresponding data from a global information store* in complete details without one of ordinary skill in the art to obviously make the connection. However in the same field of endeavor Dewhurst teaches *means for sharing a common program flow among a plurality of users based, at least in part, upon replacing a global variable in the command information store with corresponding data from a global information store* (column 4, lines 33-65 and figure 5; wherein depicted are plurality of users accessing information from a remote location "server", wherein information is a global information store where connected users can replace variables in the global information store. The replacement information is updated for other connected users from other single locations (clients). Of course it would have been obvious to one of ordinary skill in the art at the time of the invention to include Dewhurst's detailed view of global sharing into Schaefer broad view of global sharing, this is true because Dewhurst and Schaefer both teach systems and methods of automation of software presented to the user using a repository connected to a client.

As claim 33, Schaefer does not specifically disclose the configuration information store/ data and commands associated with program flow are stored in a text-based file.

However, Schaefer discloses a text-based file (par [0047], that HTML is a text based file; par [0048]), lines 11-14). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention to use a text-based file for the command information store in order to store and organize information about a window and objects on the window, such as text fields, boxes, buttons, menus, etc., and making it easy to



edit using available software programs installed with most operating systems (e.g., text editing program).

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schaefer in view of Dewhurst in further view of Minard (US Patent 6,247,020).

As claim 2, Schaefer does not teach the automation component is a wizard. However, Minard teaches the automation component is a wizard (fig. 4A; col. 3, lines 27-31; col. 6, the image showing the wizard menu along with the description of functions; col. 8, lines 41-51) Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Schaefer by using a wizard as the automation component as taught by Minard in order to improve the user interface that simplifies the job by removing numerous windows and consolidating all the functions into one unified window for the user interface with to design, edit and debug allowing the user to activate by the push of a button (Minard: col. 3, lines 20-33).

5. Claims 12-13, 23 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaefer in view of Dewhurst in further view of Zimniewiez et al. (US Patent 6,744,450), hereinafter "Zimniewiez"

As claim 12, Schaefer does not teach the input component performs input validation upon the request and provides error information if the request is invalid. Schaefer does teach the basic principle and concept (par. [0110], that by when test data is to be entered into a text field, test engine component 170 may call an insert\_text function. Software controller component 173 may transmit an appropriate instruction to the software program 185 to input the data into the object and may return the result of the processing of the instruction by the software program 185 to test engine component 170). However, Zimniewiez teaches the input component performs input validation upon the request (col. 9, lines 36-38) and provides error information if the request is invalid (col. 8, lines 13-17). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Schaefer by performing input validation in the input component upon the request and provides error information if the request is invalid as taught by Zimniewiez in order to provide the user with an indication the process is invalid and provides the user immediate feedback to initiate troubleshooting the cause of the invalid function/command (col. 8, lines 43-46).

As claim 13, Schaefer does not teach a graphical message is displayed to a user of the system, the graphical message being based, at least in part, upon the error information from the input component. However, Zimniewiez teaches a graphical message is displayed to a user of the system, the graphical message being based, at least in part, upon the error information from the input component (col. 7, lines 22-24). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was

made to modify Schaefer by displaying a graphical message to the user of the system, the graphical message being based, at least in part, upon the error information from the input component as taught by Zimniewiez in Order to provide the user with an indication the process is invalid and provides the user immediate feedback to initiate troubleshoot the cause of the invalid function (Zimniewiez; col. 10, lines 11-15).

As claim 23, Schaefer does not teach storing information in a log information store, if an error is detected performing the simulated user interface. However, Zimniewiez teaches storing information in a log information store (col. 11, lines 52-56), if an error is detected performing the simulated user interface (fig. 4a, label 124 and 136; col. 7, lines 19-21; col. 8, lines 59-60). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Schaefer by storing information in a log information store, if an error is detected performing the simulated user interface as taught by Zimniewiez in order to provide the user with an indication the process is invalid and provides the user immediate feedback to initiate troubleshoot the cause of the invalid function (Zimniewiez; col. 10, lines 11- 15).

As claim 26, Schaefer does not teach storing information in a log file, if an error is detected performing the action. However, Zimniewiez teaches storing information in a log file (col. 11, lines 52-56), if an error is detected performing the action (fig. 4a, label 124 and 136; col. 7, lines 19-21; col. 8, lines 59-60). Therefore, it would have been

obvious to one of ordinary skill in the art at the time the invention was made to modify Schaefer by storing information in a log file, if an error is detected performing the action as taught by Zimniewiez in order to provide the user with an indication the process is invalid and provides the user immediate feedback to initiate troubleshooting the cause of the invalid function (Zimniewiez; col. 10, lines 11-15).

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**(Note:)** It is noted that any citation to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. In re Heck, 699 F.2d 1331, 1332-33, 216 USPQ 1038, 1039 (Fed. Cir. 1983) (quoting In re Lemelson, 397 F.2d 1006, 1009, 158 USPQ 275, 277 (CCPA 1968)).

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-4, 6-30 & 33 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Prior art cited is related to automated navigation for graphical user interfaces.

***Inquires***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Augustine whose telephone number is 571-270-1056. The examiner can normally be reached on Monday - Friday: 7:30- 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nicholas Augustine  
Examiner  
AU: 2179

N. Augustine  
10/11/07

BA HUYNH  
PRIMARY EXAMINER

